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Grain Yield and Quality Comparisons:

RB07's yield ranks slightly below the top yielding cultivars in the State Yield Trials and has proven itself as a very stable producer across the State. The variety is resistant to pre-harvest sprouting and the Hagberg falling number averages > 400 seconds. The end-use quality of RB07 is good. For additional yield comparisons, consult the *Minnesota Varietal Trials Results* bulletin.

Table 5: Grain yield of RB07 relative to comparable HRSW varieties (2004-2006).

Variety	Relative Maturity (days)	North (%)	South (%)	State (%)
Briggs	-1	102	106	105
Oklee	-1	99	102	101
RB07	0	108	107	107
Glenn	0	102	95	98
Granger	1	104	108	106

Table 6: Grain quality of RB07 relative to comparable HRSW varieties (2005-2006)

Variety	Test Weight (lb/bu)	Grain Protein (%)	Baking Quality
Briggs	60.5	14.6	medium
Oklee	60.5	14.9	low-medium
RB07	59.7	14.9	medium-high
Glenn	62.6	15.4	high
Granger	60.2	14.6	medium



**Minnesota
Agricultural
Experiment
Station**

UNIVERSITY OF MINNESOTA

RB07

Hard Red Spring Wheat

March 2007

RB07

'RB07' is a hard red spring wheat developed and released by the Minnesota Agricultural Experiment Station (MAES) in 2007. RB07 selected from the cross Norlander/HJ98.

Before release, RB07 was tested as MN99436-6 in yield trials since 2002 and was in the Uniform Regional Hard Red Spring Wheat Nursery in 2003 and 2004. Since 2004 RB07 has been entered in the Minnesota State Yield Trials.

The variety commemorates Dr. Robert H. Busch, the former USDA-ARS wheat breeder and geneticist at the University of Minnesota who retired in 2000.

Protection under the Title V provision of the US Plant Variety Protection Act is pending. Breeder seed of RB07 is maintained by the MAES. Foundation seed is produced and maintained by the Minnesota Crop Improvement Association, 1900 Hendon Avenue, St. Paul MN 55108 (www.mncia.org).

Characteristics:

RB07 is an awned hard red spring wheat with medium to small sized kernels that are red and with an ovate form. RB07 has a early maturity. Plant height averages 32 inches and straw strength is moderate, similar to slightly better than Knudson. RB07 has high yield potential with an average test weight and above average grain protein content.

Planting:

RB07 is well suited for the whole state of Minnesota.

Table 1: Seed characteristics of RB07.

Coleoptile	2.7
Seed Count	14,500 seeds/lbs

Table 2: Seeding rate information for Ada.

	Early	Late
Optimum Stand (plants/ft²)	30	32
Seeding Rate (lbs/acre)	109	117

Herbicides:

RB07 has no restrictions for any of the common herbicides labeled for hard red spring wheat in Minnesota.

Table 3: Crop tolerance of RB07 to postemergence grass herbicides.

Herbicide	Poor	Fair	Good
Assert			x
Axial			x
Discover			x
Everest		x	x
Puma			x
Rimfire		x	x
Silverado		x	x

Fungicides and Seed Treatments:

RB07 has no restrictions for any of the fungicides or seed treatments labeled on hard red spring wheat in Minnesota. Disease responses of RB07 to common pathogens are listed in Table 4.

Table 4: Disease ratings of RB07 to common pathogens with 1=best and 9=worst.

Disease	Rating
Common Root Rot	N/A
Leaf Rust	1
Stem Rust	1
Stripe Rust	1
Tan spot/ Septoria complex	4
Fusarium head blight	5
Black Point	N/A